

CZECHOSLOVAKIA

HELEŠNY, I.; HAVA, M.; Research Institute of Natural Drugs (Vyz-
kumny Ústav Přírodních Léciv), Prague.

"On the Mechanism of Action of Methyltestosterone (MTS) on the Contraction
of the Smooth Muscle."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 5, Sep 66, p 400

Abstract: The dampening of the effect of acetylcholinein causing
the contraction of rat duodenum by the application of MTS is
described. An equation expressing the influence of Ca ions on
the effect of MTS is presented. Effect of MTS on an electrical-
ly stimulated duodenal contraction is described. 1 Czech refer-
ence. Submitted at 14 Days of Pharmacology at Smolenice, 15 Feb
66.

1/1

- 56 -

HELFRICH, Franjo, mr.

Congress on the History of Pharmacy in Rotterdam. Pharmaceut
gl Zagreb 20 no.6:265-269 Ja'64

HELFRICH, Franjo, mr (Osijek)

Congress for the History of Pharmacy in Rotterdam. Pt. 2. Farmaceut
gl Zagreb 20 no.7/8:331-334 J1-Ag '64.

Helgou, T.

GAJ, Emmylinda. *Mathematical Polynomials*

PLATE I BOOK EXHIBITION

BM/5753

London: Palmar Press (Scientific Books), 1972. 57 p. 8cm. This number: 50. of copies printed not given. No contributors mentioned.

Format: This book is intended for mathematicians, physicists, chemists, and civil and mechanical engineers.

Contents: The book consists of 39 papers by Russian specialists in problems in science and technology, particularly in chemical engineering, metallurgy, and nuclear energy. The papers are arranged in four sections: 1. Problems of Chemical Engineering; 2. Problems of Metallurgy; 3. Problems of Nuclear Energy; 4. Problems of Civil and Mechanical Engineering. The papers are accompanied by references, all Russian. At the back of the book there are 57 references, all Russian.

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HELIG, Mates, dr inz.

Remarks on designing turbulence chambers. Techn motor 12
no. 4/5: 108-109 Ap-My '62.

1. Politechnika, Lodz.

HELIKAR, F.

Courage only?

P. 70. (SVET MŮJ RU.) (Praha, Czechoslovakia) Vol. 12, No. 3, Jan. 1958

SG: Monthly Index of East European Accession (EEAI), LC. Vol. 7, No. 5, 1958

HELINSKA, Lidia; RACEKOWSKI, Jan

Influence of the moisture content in timber on its transverse strain coefficients. Roczniki wyz szkola rol Poznan 16:3-18 '63.

1. Department of Mechanical Technology of Wood, College of Agriculture, Poznan.

HELINSKI M.

Klin. dermat. A.M. i Klin. Chor. Oczu A.M., Warszawie. *Ukaldowe zmiany tkanki sprężystej-
elastosis dystrophica (Pseudoxanthoma elasticum). Elastosis dystrophica
(pseudoxanthomaelasticum) POL. TYG. LEK. 1954, 9/1 (4-8 and 3) Illus. 9

SO: Excerpta Medica

Section III

Vol 9. No. 1

HELINSKI, Maurycy

HELINSKI, Maurycy

Treatment of skin diseases with levulose. Przegl. dermat. 4 no.3:
217-222 My-Je '54.

1. Z Kliniki Dermatologicznej Akademii Medycznej w Warszawie.
Dyrektor; prof. dr S.Jablonska.

(SKIN, diseases,

*ther., fructose)

(FRUCTOSE, therapeutic use,

*skin dis.)

HELINSKI, Maurycy, Warszawa.

Nicotinic acid hydrazide. *Przeegl.derm. Warsz.* 5 no.1:43-54 Jan-Feb. '55.

1. Klinika Dermatologiczna Akademii Medycznej, Koszykowa 82a.
(NICOTINIC ACIDISOMERS,
isoniazid)

HELINSKI, Maurycy

Skin diseases in North Korea. Prsegl.derm.Warsz. 5 no.3:213-217
My-Je '55.

1. Ze Szpitala Polskiego Czerwonego Krzyża w Koreańskiej Republice
Ludowo-Demokratycznej (KRLD) Dyrektor: dr J. Ossacki. Warszawa,
Klinika Dermatologiczna Akademii Medycznej, Koszykowa 82 a.

(SKIN, diseases,
in N. Korea)

(VENERIAL DISEASES, epidemiology,
in N. Korea)

HELINSKI, Maurycy; POGORZELSKI, Jerzy

Therapy of cutaneous tuberculosis with isoniazid. Przegl.der.,
Warsz. 5 no.4:289-299 Je-Ag '55.

1. Z Kliniki Dermatologicznej A.M. w Warszawie. Dyrektor: prof.
dr S. Jablonska, Warszawa, Klinika Dermatologiczna Akademii
Medycznej, Koszykowa 82a.

(TUBERCULOSIS, CUTANEOUS, therapy
isoniazid)

(NICOTINIC ACID ISOMERS, ther.use
isoniazid in cutaneous tuberc.)

HELINSKI, Maurycy.

Treatment of tuberculosis indurativa with isonicotinic acid hydrazide association with non-specific methods. Przegl.derm. Warsz. 5 no.6:469-472 Nov-Dec '55.

1. Z Kliniki Dermatologicznej A.M. w Warszawie. Dyrektor: prof. dr S. Jablonska Warszawa, Klinika Dermatologiczna Akademii Medycznej, Koszykowa 82 a.

(TUBERCULOSIS, CUTANEOUS,

indurative, ther.,isoniazid with other drugs)

(NICOTINIC ACID ISOMERS, therapeutic use,

isoniazid in cutaneous indurative tuberc. with other drugs)

HELINSKI, Maurycy.

Pellagroid caused by poisoning with goose-foot. Polski tygod.lek.
11 no.5:210-212 30 Jan 56.

1. Ze Szpitala Polskiego Czerwonego Krzyza w Hynnman, KRLD; dyrektor:
dr Jan Ossacki. Warszawa, Prozna 12.

(PELLAGRA

pellagroid caused by pois. with Chenopodium album Live)

(GRASSES

Chenopodium album Live pois. causing pellagroid)

(POISONING

Chenopodium album Live, causing pellagroid)

HELINSKI, Maurycy.

Poison ivy dermatitis. Polski tygod. lek. 11 no.5:212-214 30 Jan 56.

1. Z Szpitala Polskiego Czerwonego Krzyza w Korei Polnocnej;
dyrektor: doc. Dr Jan Osacki. Warszawa, Proszna 12.
(DERMATITIS, CONTACT, etio). and pathogen.
poison ivy)

HELINSKI, Maurycy.

Ascariasis and allergic skin diseases. Polski tygod. lek. 11 no.5:215-217 30 Jan 56.

1. Ze Szpitala Polskiego Czerwonego Drzyza w Hynnan, KMLD, dyr.:
dr Jan Oszacki.

(SKIN, dis.

caused by ascariasis, ther., calcium chloride, santonin & autohemother.)

(CALCIUM

chloride, ther. of skin dis. caused by ascariasis, with santonin & autohemother.)

(ANTHELMINTHICS, ther. use

santonin in ascariasis, causing skin)

(BLOOD TRANSFUSION,

autotransfusion in skin dis. caused by ascariasis, with calcium chloride & santonin)

JINDRA, L.; HELJEK, J.; DETAK, J.; JANAT, V.

Determination of soluble zinc compounds in infusion glucose solutions and their possible effect on the appearance of pyretic reactions. *Cesk. farm.* 11 no.1:28-29 '61.

1. Krajska infusni laborator KSLZM, Ceske Budejovice. Krajska kontrolni laborator KUNZ, Ceske Budejovice. Krajsky sklad leziv a zdravotnickeho materialu, Ceske Budejovice - lekarske oddeleni KUNZ, Ceske Budejovice.

(INFUSIONS PARENTERAL) (ZINC chem)

HELL, F.

RADNOTI-RECHT, Istvan; HELL, Ferenc.

Radiological diagnosis of rheumatic carditis without symptoms
in children. Gyermekgyógyászat 5 no.3:92-96 Mr '54. (KHAL 3:8)

1. Szövetseg-utcai kórház es Budapest Fovaros X. ker. Tanacs
Gyermekgyógyászati Szakrendelősenek (vezeto: dr. Radnoti-Recht
Istvan főorvos) es Röntgenintézetnek (vezeto: Hell Ferenc dr.
főorvos) közleménye.

(RHEUMATIC HEART DISEASE, diag.

*x-ray in child.)

BARNA, Sandor, dr.; ANTAL, Pal, dr.; HELL, Ferenc, dr.; FEUER, Istvan, dr.

Examination of postoperative complaints in stomach resection by biligriffin. Orv. hetil. 98 no.5-6:100 10 Feb 57.

1. A Fovarosi Tanacs X, ker., Egesszegehasanak, a Pest megyei Semmelweis Korhaz Korbonctani Oosztalyanak es a Budapesti Orvostudomanyi Egyetem II. sz. Sebesseti Klinikajanak (Igazgato: Rubanyi, Pal, dr. egyet. tanar) kozlemenye.

(GASTRECTOMY, compl.

diag., cholecystography with sodium iodipamide (Hun))

(CHOLECYSTOGRAPHY, in various dis.

postop. compl. in gastrectomy, use of sodium iodipamide (Hun))

HELL, Ferenc, Dr.

BARNA, Sandor, Dr.; HELL, Ferenc, Dr.; ERÖDI, Frigyes, Dr.; ANTAL, Pal, Dr.

Examination of operated peptic ulcer patients with biligradin.
Orv. hetil. 99 no.10:344-345 9 Mar 58.

1. A Fovarosi Tanacs X. ker. Egészséghez Bel-Fekvo Osztalyanak es a Pestmegyei Semmelweis Korhaz Korbonctani Osztalyanak kozlomenye.

(IODIPAMIDE

sodium, in postop. cholecystography in peptic ulcer (Hun))

(CHOLECYSTOGRAPHY

postop. in peptic ulcer with sodium iodipamide (Hun))

(PEPTIC ULCER, surg.

postop. cholecystography with sodium iodipamide (Hun))

HELL, J.

Effect of the molecular weight of the esterification of alcohols on the surface activity of sulfated esters of the higher fatty acids.

p. 61 (Chemický Průmysl. Vol. 7, no. 2, Feb. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (MEEAI) LC. Vol. 7, no. 2,
February 1958

HELLE 13, 14

PAPP, Andras, Dr.; HELLE, Barna, Dr.; THALY, Iure, Dr.; VAMOS, Geza, Dr.;
KATONA, Marton, Dr.; VIZY, Eva, Dr.

Experiences with lung resections. Tuberkulozis 10 no.10-12:276-279
Oct-Dec 57.

1. Az Allami Fodor Jozsef Tbc. Gyogyintezet (Igasgato-feorvos: Risiko
Tibor dr.) koslemenye.

(PNEUMONECTOMY

early & late results, statist. (Hun))

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618010002-3

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618010002-3"

WUSATOWSKI, Z.; WUSATOWSKI, Z.

Discussions of Zygmund Wusatowski's article "New Methods of Describing Plastic Deformations." p. 437. HUTNICKÉ LISTY. (Ministerstvo hutního průmyslu a rudných dolů) Brno. Vol. 11, no. 7, July 1956.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

HELLEBRAND, L.

HELLEBRAND, L. Unequal deformation and Tafel's "Natural Lengths" theorem.
P. 713.

Vol. 11, no. 12, Dec. 1956

HUTNICKE LISTY

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

HALL, G. H.; TAFEL, A.

Discussion on G. Hellebrand's article "Irregular Deformation and Tafel's Law of Natural Lengths." p. 617. (HUTNICKE LISTY, Vol. 12, No. 7, July 1957, Brno, Czechoslovakia)

SO: Monthly List of East European Accessions (MEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

HELLEBRAND, L.

TECHNOLOGY

periodicals: METNIK Vol. 8, no. 11, Nov. 1958

HELLEBRAND, L. Some remarks on the theory of the rolling process on a planetary mill. p. 373

Monthly List of East European Accessions (EEAI) IC Vol. 8, no. 5
May 1959, Unclass.

L 52607-65 EWA(d)/ENP(t)/EWP(k)/EWP(b)/EWA(c) Pf-4 IJP(c) JD/EM

ACCESSION NR: AF5020425

CZ/0034/64/000/008/0567/0572

AUTHOR: Sedlacek, V. (Engineer, Doctor, Doctor of sciences); Hallebrand, L. (Engineer, Candidate of sciences); Vacha, J. (Engineer)

24
B

TITLE: Analysis of bar and mandrel drawing of copper tubes

SOURCE: Hutnicke listy, no 8, 1964, 567-572

27 A

TOPIC TAGS: pipe, copper, metal drawing, metal forming machine tool

ABSTRACT: Bar and mandrel drawing of tubes, and the use of loosening roll heads during reconstruction of drawbenches was shown to be successful by an analysis of the stresses and of the technological parameters. By this technique greater reduction by a drawing pass, reduction of the number of operations in the manufacture of thin walled tubes, an increase of drawbench capacity, economy in materials, and an increase in the yield were achieved. Orig. art. has: 2 figures, 5 tables, 15 formulas.

ASSOCIATION: Vyzkumny ustav kovu, Kovohute Celakovice (Research Institute for Metals)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, KM

NR REF SOV: 001

OTHER: 006

JERS

Card 1/1

L 62731-65 EWA(d)/EWP(t)/EWP(z)/EWP(b) JD

ACCESSION NR: AP5021460

CZ/0034/64/000/011/0809/0815

AUTHOR: ⁵⁵ Hellebrand, Ladislav (Engineer, Candidate of sciences); Sedlacek, Vladimir (Engineer, Doctor of engineering, Doctor of sciences) ²²
²³
⁵⁵

TITLE: Determination of the optimum rolling temperatures for alloy Ms59Pb

SOURCE: Hutnicke listy, no. 11, 1964, 809-815

TOPIC TAGS: metal rolling, copper base alloy, temperature, plasticity, lead containing alloy/Ms59Pb alloy

Abstract [Authors' English Summary]: Ms59Pb alloy (59,7% Cu, 1,5%Pb) easily develops cracks in the sides of semi-finished products during rolling. Studies of optimum temperatures were made in the range of 20 to 820°C. Plasticity was evaluated from ductility, contraction and notch strength curves. Experiments of rolling wedges into sheet bars were conducted; max. deformability range was found at 720 - 740°C. Operating conditions of 650° to 770°C are suggested. Below 650°C at height reductions over 30% cracks occur. Orig. art. has 4 figures, 1 formula, 4 graphs and 4 tables.

Card 1/2

L 62731-65

ACCESSION NR: AP5021460

ASSOCIATION: Vynukunny ustav kovu, Panenske Brezany (Research Institute for Metals)

SUBMITTED: C3

ENCL: 00

SUB CODE: MM

NO REF SOV: 002

OTHER: 012

JPRS

Card

zll
2/2

HELLEBRANDT, Karoly

Rotary CU counterelectrode for TB. II spectroscope. Ujit lap 14
no.21:19 10 N '62.

1. Eromu Javito es Karbantarto Vallalat ujitoja

HELLEI, Andras, dr.

The role of diseases in the man power utilization of a state
farm. Munkavedelem 6 no.1/3:29-36 '60.

*

HELLENBACH, Helena, dr.; LJUBITRATIC, Pero, dr.

Cases of poliomyelitis treated at hospital for infectious diseases in Zagreb in 1953. Lijec. vjes. 76 no.5-6:213-222 1954.

1. Iz Bolnice za zarazne bolesti u Zagrebu.
(POLIOMYELITIS
pathol. & ther.)

HELLENBACH, Helena, dr.

The symptoms and therapy of dangerous conditions in poliomyelitis.
Lijec. vjes. 76 no.5-6:223-226 1954.

1. Iz Bolnice za zarazne bolesti u Zagrebu
(POLIOMYELITIS, ther.)

FERLUGA, Cvijeta, dr.; HELLENBACH, Helena, dr.

Epidemic of serous meningitis in Zagreb in 1956. Lijec. vjes. 81
no.11:811-818 '59.

1. Iz Bolnice za zarazne bolesti u Zagrebu.
(MENINGITIS epidemiol.)

MIHALJEVIC, Frano, dr.; BACUN, Marija, dr.; ~~BEZJAK~~, Branko, dr.; FERLUGA,
Cvijeta, dr.; HELLENBACH, Helena, dr; KNEZEVIC, Mira, dr.;
KOSUTIC, Zvonko, dr.

Bornholm disease in Yugoslavia. Liječn. vjesn. 83 no.8:771-781
'61.

1. Iz Bolnice za zarazne bolesti u Zagrebu.
(PLEURODYNIA EPIDEMIC epidemiol)

VODOPIJA, Ivan, dr.; TOMPAK, Biserka, dr.; SKALOVA, Radmila, dr.;
HELLENBACH, Helena, dr.

Isolation of *S. typhi abdominalis* from well water by the membrane
filtration method during the epidemic of typhoid fever in the village
Bratini in 1960. Liječn. vjesn. 83 no.12:1241-1244 '61.

1. Iz Gradskog zavoda za zdravstvenu zaštitu, Škole narodnog zdravlja
"A. Stampar" i Bolnice za zarazne bolesti u Zagrebu.

(TYPHOID transm) (WATER SUPPLY microbiol)

KOSUTIC, Zvonimir, dr.; HELLENBACH, Helena, dr.; CEKIC, Jelena, dr.

Vi-antigen in the treatment of typhoid fever. *Liječn. vjesn.*
85 no.12:1361-1369 D'63

1. Iz Bolnice za zarazne bolesti i Republickog zavoda za
zastitu zdravlja u Zagrebu.

*

FALISEVAC, Josip, dr.; RULNJEVIC, Juraj, dr.; BEZJAK, Branko, dr.;
HELLENBACH, Helena, dr.; BREITENFELD, Josip, dr.

Clinical considerations on tick-borne meningoencephalitis.
Liječn. vjesn. 86 no.1:25-34 Ja'64

1. Iz Bolnice za zarazne bolesti u Zagrebu

S

SZABO, Pal Zoltan; JONAS, Klara, dr.; VARADI, Gyorgy; BIRO, Antal;
UPOR, Endre; RADO, Aladar; CZIRJAK, Imre; KOVACS, Jenő;
VALKO, Endre, dr.; ADONYI, Ivan; FODOR, Gyorgy; OSZETZKY,
Egon; KALMAR, Pal; DANYI, Dezso; GYORGY, Karoly; OVARI, Antal;
PHILIP, Miklos; BAKAI, Laszlo; JOO, Oskarne; SZITAS, Lajos;
HELLENYI, Miksa; KOLTA, Janos.

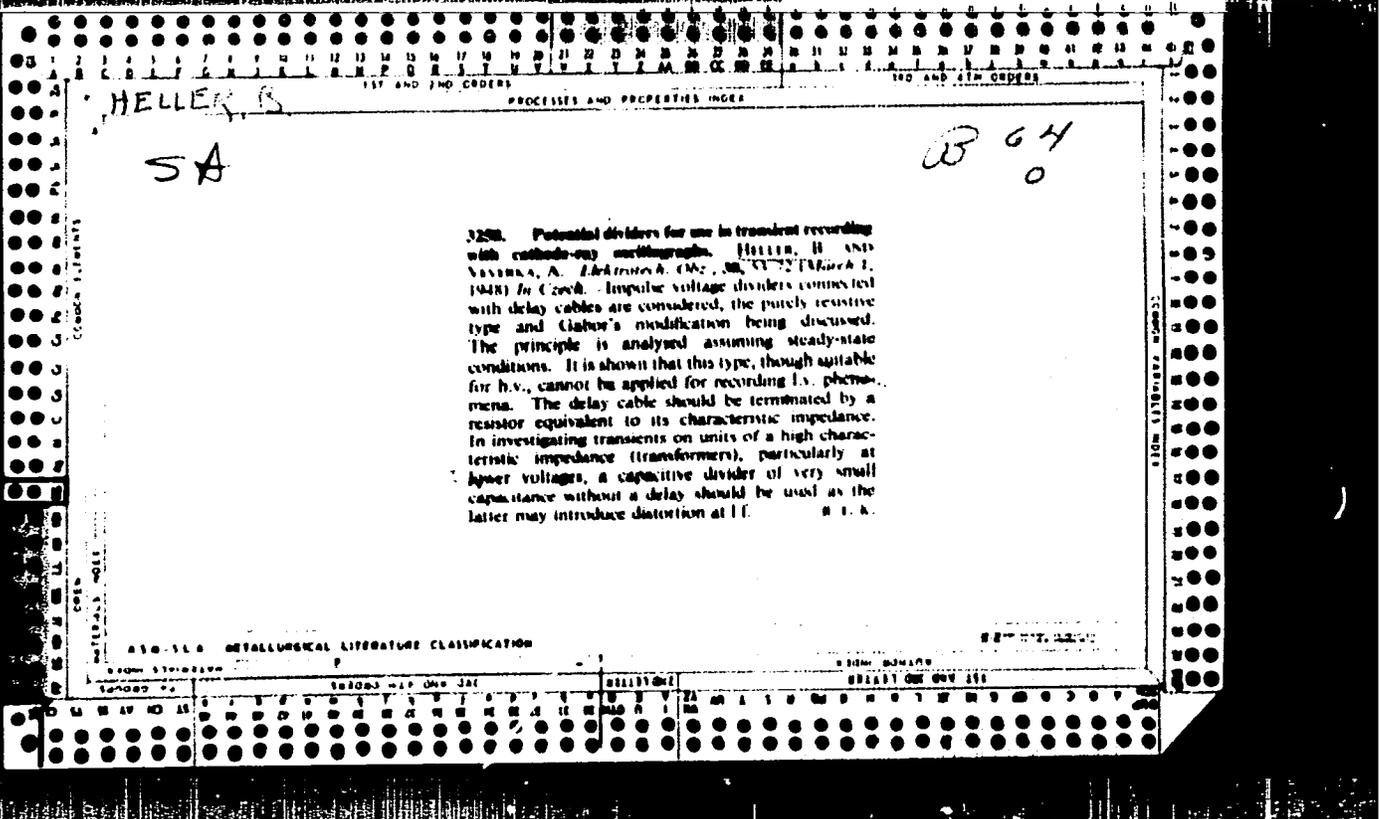
Formation of an uniform country organization for the Federa-
tion of Technical and Scientific Associations. Pecsí müss
szeml 8 no.4:19-23 0-D'63.

1. "Pecsi Müssaki Szemle" foszerkesztoje (for Fodor).
2. "Pecsi Müssaki Szemle" szerkesztoje (for Hellenyi, Kolta
and Oszetaky).

HELENYI, Miksa

Methods for implementing a machinery investment. Pecszi musz szeml 9 no.3:11-14 J1-S '64.

1. Pecs Gas Works, and Editor, "Pecsi Muszaki Szemle", Pecs.



S.A. HELLER, G.
sect. B

621 114 2.004
1944. Increasing the strength of the insulation of
the input turns of a transformer winding. B. Štárek,
J. HLÁVKA AND A. VEJVRA. *Elektrotech. Obr.*, 30,
1-4 (No. 1-2, 1938) in Czech.
Investigation of the voltage distribution in coil
windings with uniform and non-uniform insulation
thickness in the case of a voltage surge. It was found
that the sudden change in coil inductance due to non-
uniform thickness of the insulation adversely affects
the electric stress conditions and that if a shield ring
is used it is preferable to use insulation of uniform
thickness. The experimental winding used in the
tests and the results obtained are described. B. Štárek

Transformers

HELLER, B.

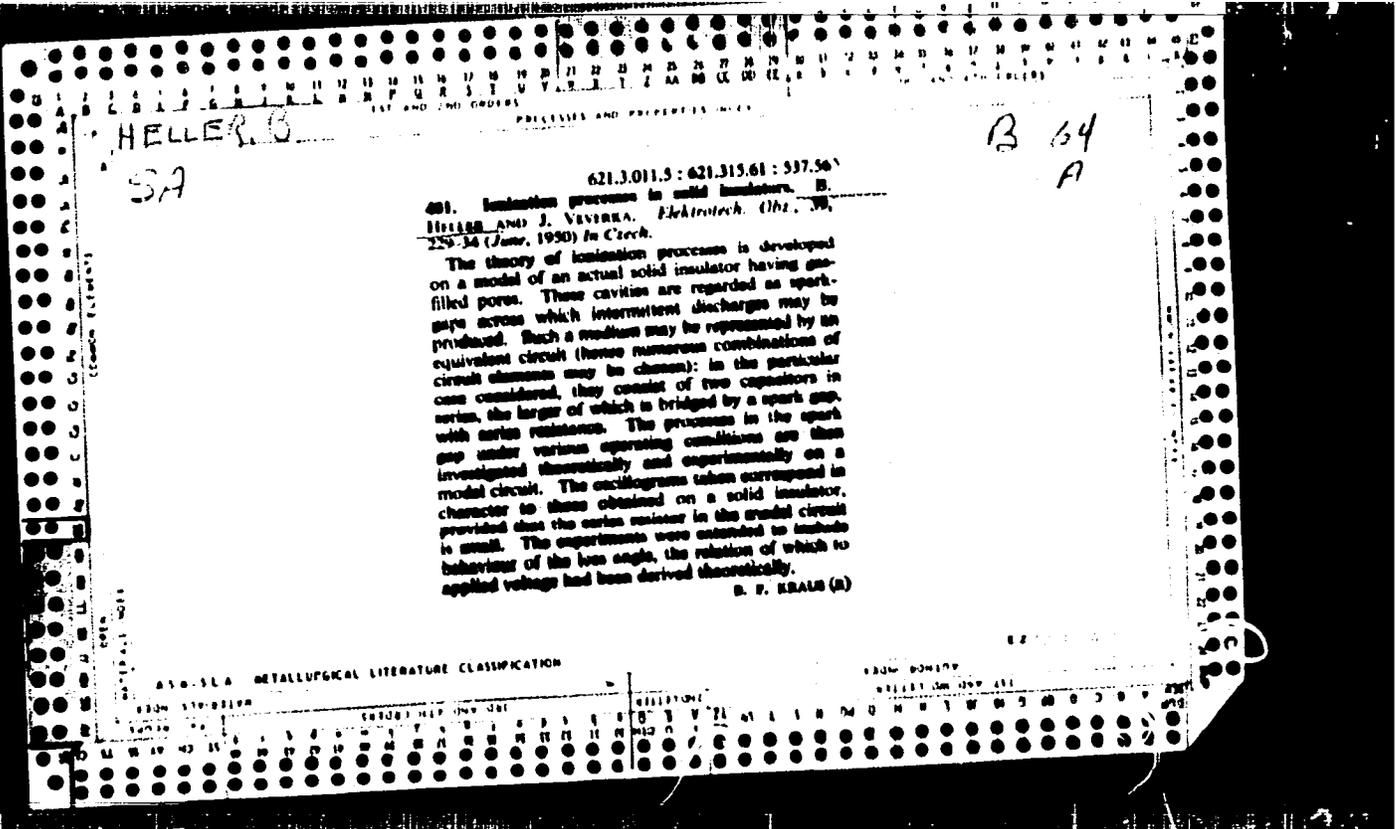
S. A.
Sect. B

621.314.2.045 : 621.3.018

1938. Free oscillations of transformer windings taking into consideration the effect of the iron. B. Mrazek and A. Vozvna. *Elektrotech. Obs.*, 30, 5-7 (No. 1-2, 1938) in Czech.

The influence of the iron core on the free oscillations of transformer windings during voltage surges are investigated. The calculations are made disregarding the influence of the relative location of a turn on the mutual inductance. The relations derived consist of two equations, one applicable for very low frequencies, the other for higher frequencies. The accuracy of the results obtained by these formulas were checked by comparison with test results.

E. CRCS



Inductance & Reactance

HELLEN, U.

S. A.

Sect. B

621.318.4 : 621.3.015.33
 1892. Electric stream in a coil under unit surge.
 B. HULLAN AND A. VIVIANA. *Abstracts (Ox.), 48*,
 143-50 (No. 7-10, 1951) in Czech.
 Further development is reported of the authors' theory of magnetic stream in a single-layer coil [Abstr. 1485 (1950)], which is an improvement of Rodenburg's theory [*Trans Amer. Inst. Elect. Engrs.*, 1631 (1946)] and uses experimental data of Fred [Abstr. 2621 (1947) and Abstr. 67 (1950)]. The principle used may be expressed thus: To a first approximation it may be assumed that all h.f. waves are propagated at such a speed that the magnetic stream may be represented by a travelling

(over)

wave, because the stresses of the turns are mainly determined by the h.f. waves. The discussion of the time and space expansion shows that the voltage distribution at every instant may be represented as a sum of the final distribution, a progressive wave propagated without dispersion towards the coil at the velocity v_{∞} of the progressive wave process, a wave moving towards the terminals, and of a standing wave comprising only long wavelengths. Both progressive waves have at $t = 0$ the same amplitude, equal to half the difference of those of the initial and final distribution. By contrast with other communications of the authors which, despite their length, often omit essential parts of the deduction, this paper gives them in full length and uses them for deriving the maximum stress formulae for any section of a single-layer coil with the corresponding time relations which show that the stress in the coil at any time after the passage of the surge depends only on the initial voltage distribution which, in turn, is determined by the distribution of the coil capacitance. The case of a coil with earthed end and with isolated end are considered and the voltage to earth of the free end calculated in the latter case.

D. F. BRADY

HELLER, C.

Electro Statics

S.A.

Sect. B

621.319.5

2149. Surge voltage generators. B. FELLER AND
A. VIVIANI. *Elektronik. Obr.*, 40, 280-9 (No. 11-14,
1951) In Czech.
The discharge process in various types of surge
generators, the charging current and the influence of
additional inductances and capacitances on parasitic
oscillations are investigated. s. 0808

H. E. L. E. Y. S.

S.A.

part. B

Compensator & Rectification

621.314.65 : 621.318.43 : 621.314.228.3

2000. Attraction coil (integrated transformer) with external excitation. B. HOLLER. *Electrotech. Ofr.*, 48, 308-3 (No. 21-28, 1997) in Czech.

The influence of the compensating choke upon the break in the characteristic of rectifiers is discussed. The break does not appear when the compensating choke is excited by an exterior source at a frequency of 150 c/s. The most suitable exciting source is a static frequency converter. The working conditions of this converter are analyzed.

A.

HELMER, B.

HELLER, B., HANKA, L.

"Research in Heavy Current Electric Engineering in Czechoslovakia," p. 181.
(Elektrotechnický Obzor, Vol.42, No.4, Apr. 1953, Praha.)

SO: Monthly List of East European Accessions, Vol.2, No.9, Library of Congress, September
1953, Uncl.

HELLER, B.

Electrical Engineering Abstracts
May 1954
Transformers

Distortion
1908. The distortion of main voltages and currents through ~~rectifier~~ ~~transformers~~. *Průmysl. Elektrotech. Obsor*, 42, No. 6, 304-9 (1935) In Czech.

Mathematical analysis of the effect of mercury-arc rectifiers on the shape of voltage and current in the supply system to which they are connected, in particular if this contains a pronounced higher harmonic with which current resonance may occur. Such a condition leads to considerable voltage harmonics on the terminals of the rectifier transformer. The article also describes a method for calculating these effects, taking into account the shape of the magnetizing curve of the transformer, and deals with harmonic currents in the operation of a p -phase rectifier and the means for their elimination.

H. NORDL

8-19-54 jps

HELLER, B

"Transient Phenomena in Massive Iron." p. 368, (ELEKTROTECHNICKY OBRAT, Vol. 42,
No. 7/8, July/Aug. 1953, Praha, Czechoslovakia)

SO: Monthly List Of East European Accessions, LC.,Vol.3, No. 5 May 1954, Unclassified

HELLER, B.

611-52:611.3A(4.19)
1958. The Michaloff-Leonhard criterion of stability.
B. HELLER AND A. VYONKA. *Elektronich. Obzor*, G.
1958 (1953) in Czech.

Detailed deduction of a new method for determining the stability of linear systems based essentially on the Michaloff-Leonhard principle. It is shown that it is sufficient to find only the real part of the characteristic equation of the system, and the conditions are derived for a system to be stable. It is also shown that the Hurwitz stability conditions can be derived from the described criterion. The new method permits the rapid determination of the stability of a given system. All formulae are developed in great detail and numerous graphs are shown.

H. NORDL.

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 5, May 1954, Unclassified.

HELLER, B.

621.372.41 : 621.3.018.3

5125. Experimental investigation of sub-harmonic oscillations in non-linear circuits containing iron. B. HELLER, J. KULDA AND A. VEJERKA. *Elektrotech. Československo*, No. 11, 607-15 (1953) in Czech.

A continuation of theoretical investigations published earlier (Abstr. 2893 (1953)), this section supplies the experimental confirmation of calculated results obtained by calculation. In particular, it is shown that subharmonic oscillations may be actually produced and continuously maintained in a RCL-circuit with iron. The inductance L was a saturable reactor. The oscillations are set up by charging the capacitor and discharging it when the supply has been cut off. The oscillograms presented show harmonics of the orders $1/5$, $1/3$, $3/2$, according to the choice of the circuit parameters. The limiting values of R for a given circuit were found for which the subharmonic oscillations can be steadily maintained. Further oscillograms reveal the mechanism of the generation of the subharmonics by sudden opening of a switch short-circuiting an inductance in the oscillation circuit.

B. F. KRAUS

SO: Eastern European Accessions List, Vol. 3, No. 10, Oct 1954, Lib. of Congress

HELLER, D.

3576. Transient phenomena in solid iron. H. HETTLER,
Elektrotech. Obzor, 42, No. 7-8, 368-75 (1955) in
Czech.

Detailed mathematical analysis of electromagnetic transient phenomena during switching operations in circuits containing solid iron. Equations are developed for impulse voltages and currents in such circuits and by means of Laplace's transformation these are simplified into equations which can be easily computed numerically. It is shown that the eddy currents in solid iron require the operator p in the current equation to be replaced by p^2 . The effect of saturation on the transient phenomena is also treated.

H. HETTLER

H. Jau

HELLER, B

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CZECH

621.316.93 : 621.313.048
3629. Coordination of insulation and overvoltage protection in rotating machines. B. HELLER AND A. VEVERKA. *Rozpravy Cesko. Akad. Ved Ser. IV*, 64, No. 2, 70-89 (1954) In Czech with summary in German (3 pp.).

To obtain adequate protection against over-voltages between windings it suffices to flatten the steep wave-front by applying a capacitor of, say, 0.1 μ F, e.g. by providing a short piece of cable between overhead line and machine. For the insulation against earth a distinction is made between machines directly connected to the overhead line or through a transformer. For the three cases of connection of the neutral to earth, namely through a resistor, directly and insulated, the most suitable protections by capacitor, coil and arresters are described and illustrated. The voltage transmitted capacitively is derived and an approximate expression is given for it.

R. NEUMANN

K 121

Heller, B.

92. The design of rectifier transformers. H. HELLER.
Elektrotech. Obzor, 43, No. 1, 3-10 (1934).
A mathematical analysis is given of the factors peculiar to the duties of rectifier transformers and a discussion of their bearing on the design of such transformers. In particular, account is taken of the rectifier being a non-linear load, of the influence of the leakage upon the external characteristics, of the dynamic stresses due to arc-back in unidirectional and two-directional (bridge-connection) rectification. The influence of higher current harmonics on the losses is also treated and special attention is paid to phenomena during arc-back. H. NORDL.

[Handwritten signature]

HELLER, B.

CZECH

1828: Determination of the leakage reactance of rectifier transformers with regard to the anode commutation. B. HELLER. *Elektrotech. Obzor*, 43, No. 3, 119-21 (1954) in Czech.

Mathematical investigation of the leakage reactances of various rectifier transformer connections and their effects on the commutation of two anodes. The problem is treated on the basis of a 2-ph. short circuit in the secondary winding of the transformer; the equivalent anode inductances for the different methods of connection are calculated and the corresponding d.c. voltage drops determined. The effect of the network inductance on the commutation is also discussed.

H. MORSE

Heller, B.

CZECH

621.314.65

2689. Fault conditions in the operation of rectifiers.
B. HELLER. *Elektrotech. Obzor*, 43, No. 5, 276-43
(1954) in Czech.

Cases specially considered are d.c. short circuit and arc-back. Sustained and transitory fault conditions (commutation troubles) are considered separately. The calculation of the inverse voltages and arc-back currents was based on a new method convenient for numerical evaluation of the results. It also enables the influence of circuit parameters and other contributing factors on the arc-back phenomenon to be easily distinguished and separated. The rectifier circuit on which the analysis is based has a delta-double-star-connected rectifier transformer and interphase transformer. Experimental results fully confirm the theory.

B. F. KRAJCS

EST

International Conference on Large Electric Systems (CIGRE) in 1954.
p. 393. ELEKTROTĚCHNICKÝ OBZOR. (Ministerstvo strojírenství a
Ministerstvo paliv a energetiky) Praha. Vol. 47, no. 8, Aug. 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

HELLER, B.

Magnetic noise of larger three-phase squirrel-cage induction motors.

P. 9. (Ceskoslovenska akademie ved. Ustav pro elektrotechniku. Prace.
Vo. 3, 1955 (published 1956)

MONTHLY Index of East European Accessions (EEAI) LC. Vol. 7, no. 2.,
February 1958

HELENA, J.

Free oscillation of two electrically and magnetically coupled coils. In Czech, German, and Russian. p. 11. (ACTA TECHNICA, Vol. 1, No. 1, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

HELLER, B.

Primary capacitance of shielded transformers.

P. 28. (Ceskoslovenska akademie ved. Ustav pro elektrotechniku. Prace.
Vol. 3, 1955 (Published 1956)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

HELLER, S.

Heller, S. Stability of transient phenomena in nonlinear systems with special regard to electromechanical processes in synchronous motors. p.1.

Vol. 65, no. 3, 1955 ROZPRÁVY. RADA TECHNICKO-VEDECKÁ. Praha, Czechoslovakia

SO: Monthly List of East European Accessions, (MLA), LC, Vol. 5, No. 2
February, 1956

HELLER, B.

HELLER, B.

Surge phenomena in grounded high-voltage transformers with a bypass coil.

p. 9 (Automobil) Vol. 1, No. 5, 1956 (Published 1957) Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

2
621.316.1 : 621.314.214
5738. SURGE PHENOMENA IN HIGH-VOLTAGE
INSTALLATIONS USING BOOSTER TRANSFORMERS FOR VOLTAGE
REGULATION. II. B. Heller

Acta tech. (Prague), Vol. 3, No. 3, 199-229 (1957). In German, with
summary (5 pp.) in Russian.

JW
1/1
For Pt I see Abstr. 147 (1958). An analysis is given of impulse
voltages appearing on transformers used for interconnecting two
h.v. power systems. The arrangement consists of an auto-trans-
former with voltage regulation effected by means of booster con-
nected in the line and supplied on the l.v. side from a tertiary
winding on the auto-transformer. The theoretical treatment, which
is also verified experimentally, is carried out for both full positive
and negative boosting with a rectangular wave applied to either h.v.
line terminal of the arrangement. E.M. Demblinski

HELLER, B.

"Czechoslovak electrical engineering."

p. 645 (Elektrotechnický Obzor) Vol. 46, no. 12, Dec. 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

HELLER, B.

TECHNOLOGY

ELEKTROTECHNICKY OBRZOR.

HELLER, B. Fiftieth birthday of Antonin Veverka. p. 553.

Vol. 47, no. 12, Dec., 1958.

Monthly List of East European Accessions (ELAI) LC, Vol. 3, no. 5
May 1959, Unclass.

HELLER, B.; ~~██████████~~

TECHNOLOGY

Periodical ACTA TECHNICA. Vol. 3, no. 6, 1958.

HELLER, B.; PALERTA, V. Internal overvoltages in transformers due to no-load switching. In German. p. 399.

Monthly List of East European Accessions (EEAI) IC, Vol. 8, no. 3, March, 1959. Uncl.

MELLER, B.

TECHNOLOGY

PERIODICAL: ACTA TECHNICA VOL. 4, no. 2, 1959

Meller, B. Theory of a corona discharge on wires in air, In German.
p. 69.

Monthly List of East European Accessions (EEAT), IC, Vol. 8, no. 5,
May 1959, Unclass.

HELLER, B., inz., dr.

"Foundations of electrotechnics II" by Vladimir List. Reviewed
by B. Heller. El tech obzor 48 no.5:278 My '59.

HELLER, B.

"Problem of transformers at the International Conference on Large Electric Systems in 1958."

Elektrotechnicky Obzor. Praha, Czechoslovakia. Vol. 48, no. 2, Feb. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

~~HELLER~~, Bedrich, Ing.Dr, Doktor der techn. Wissenschaften; PADERTA,
Bedrich

The effect of iron on surge phenomena in transformers. Acta techn
Cz 5 no.1:1-18 '60.
(REAI 9:6)

1. Korrespondierendes Mitglied der Tschechoslowakischen
Akademie der Wissenschaften, Praha (for Heller)
(Iron) (Electric transformers)

HELLER, Bedrich

Dielectric conditions in a cylindrical condenser with a coronating inner electrode. Acta tech Cz 5 no.4:299-310 '60. (EEAI 9:10)

1. Institut für Elektrotechnik der Tschechoslowakischen Akademie der Wissenschaften, Praha.
(Condensers (Electricity))
(Dielectrics)
(Electrodes)

HELLER, Bedrich, Akademiker

Effect of eddy currents in the iron core on magnetic flux in transformers at surge phenomena. Acta techn Cz 6 no.2:101-116 '61.

(EEAI 10:6)

1. Institut für Elektrotechnik der Tschechoslowakischen Akademie der Wissenschaften.

(Eddy currents (Electric)) (Electric transformers)

(Transients (Electricity)) (Iron) (Magnetic fields)

HELLER, Bedrich, Akademik

Ionization processes in the laminated solid dielectric-air system.
Acta techn Cz 6 no.3:203-224 '61. (EBAI 10:9)

1. Ceskoslovenska akademie ved v Praze; vedouci redaktor "Acta technica".

(Ionisation) (Dielectrics) (Air)

S/194/62/000/003/056/066
D201/D301

AUTHOR: Heller, Bedřich

TITLE: The theory of spark breakdown in gases

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 3, 1962, abstract 3zh461 (Acta techn. (CSSR),
1961, 6, no. 5, 427-443)

TEXT: A theoretical study of the spark breakdown in a homogeneous field, based on the Rompe-Weitzel postulate of linear dependence between the magnitude of the spark channel conductivity and that of power introduced into the channel. The dependence of capacitor voltage of discharge current and of resistance of the spark channel on time are determined. The minimum value of the energy stored at the capacitor required for spark discharge is determined. Processes are also analyzed which occur during the spark breakdown in the discharge circuit with a series connected supplementary resistance. The degree of hampering of the spark formation by this resistance is determined. / Abstracter's note: Complete translation. /

Card 1/1

HELLER, Bedrich, akademik; KULDA, Jiri, C.Sc., Ing.; ADAM, Josef, C.Sc., Ing.

Magnetic field in the transformer port during the idle run. Acta
techn Cz 6 no.5:484-507 '61.

1. Ceskoslovenska akademie ved, Ustav pro elektrotechniku, Praha 1,
Vaclavske namesti 55.

(Electric transformers)

HELLER, Bedrick, Akademiker

Induction law and its application on moving bodies. Acta techn Cz
7 no.4:319-334 '62.

1. Tschechoslowakische Akademie der Wissenschaften, Praha 1 - Nove
Mesto, Vaclavske namesti 55.

HELLER, Bedrich, akademik; PADERTA, Bedrich, inz., C.Sc.

Screening spacial harmonic magnetic fields and the method of mirror images. El tech cas 13 no.8:457-477 '62.

1. Ustav po elektrotechniku, Ceskoslovenska akademie ved, Praha 1-
Nove Mesto, Vaclavske namesti 55.

KUCHERA, Yaroslav [Kucera, Jaroslav]; CAPL, Yozef [Hapl, Josef]; GELLER, Bedrzhikh [Heller, Bedrich], akademik, laureat gosudarstvennoy premii, inzh. doktor, nauchnyy red.; KALININ, Ye.M., inzh., red.

[Windings of rotary machines] Obmotki elektricheskikh vrashchatel'nykh mashin. Prague, Izd-vo Chekhoslovatskoi akad. nauk, 1963. 981 p. (MIRA 16:4)
(Electric machinery--Windings)

HELLER, Bedřich, akademik; CHLÁVEK, Jiří, Ing. DrSc.

Problems of corona losses in a solid dielectric. Acta techn
Cz 9 no.4:315-322 '64

1. Czechoslovak Academy of Sciences, Prague 1 - Nové Město,
Václavské náměstí 55.

VEVERKA, A., prof. inz. dr. DrSc.; HELLER, Bedrich, akademik; VYLETA, M., inz.

The 1964 Meeting of the International Conference on Large
Electric Systems. El tech obzor 53 no.12:662-667 D '64.

HELLER, Bedrich, Akademiker

Effect of parallel branches of stator winding in squirrel cage-motors on their torque characteristic. Acta techn Cz 8 no.1:1-16 '63.

1. Institut für Elektrotechnik, Tschechoslowakische Akademie der Wissenschaften, Praha 1 - Nove Mesto, Vaclavske nam. 55.

HELLER, Bedrich, Akademiker; CHLADEK, Jiri, inz., ScC.

Discharge phenomena in a dielectric arrangement with two air gaps. Acta techn Cz 8 no.3:177-200 '63.

1. Tschechoslowakische Akademie der Wissenschaften, Praha 1-Nove Mesto, Vaclavske namesti 55.

HELLER, Bedrich, Akademiker

Magnetic field around a concave aperture in iron through
which passes the current. Acta techn Cz 8 no.4:293-311 '63.

1. Tschechoslowakische Akademie der Wissenschaften, Praha 1 -
Nove Mesto, Vaclavske namesti 55.

HELLER, B., akademik

Discussion on transformers at the 1962 International Conference
of Large Electric Systems. El tech obzor 52 no.1:38-39 Ja
'63.

HELLER, Bedrich, Akademiker

Approximate solutions of nonlinear vibration equations

$\ddot{y} + f(\dot{y}) + \psi(y) = P$. Acta techn Cz 8 no.5:389-432
'63.

1. Institut für Elektrotechnik der Tschechoslowakischen Akademie
der Wissenschaften, Praha 1 - Nove Mesto, Vaclavske namesti 55.

HELLICH, Bohdan

Contribution to the history of pharmacies in the Kolo District.
Farmacja Pol 19 no.5:93-96 10 Mr '63.

HELLER, Bedrich, Akademiker, CHECHOSL, 1911

Physics of the corona discharges in solid dielectrics. Acta
techn Cz 9 no.14-16 '62.

1. Tschechoslowakische Akademie der Wissenschaften, Praha 1 -
Novo Mesto, Vaclavske namesti 55 (for Heller).

HEILER, Bedřich, Akademik, ZAVRATA, Perich, inž. OSa.; USAR, Frantisek,
inž. OSa.

Surge phenomena in combined transformer windings. Acta techn Cz
9 no.237-103 '64

HELLER, Bedrich, academician

Solution of some complex integrals by dimensional analysis and the polar diagram. Acta techn Cz 9 no.3:199-207 '64.

1. Czechoslovak Academy of Sciences, Prague 1 - Nove Mesto, Vaclavske namesti 55.

HELLER, Bedrich, akademik

Air gap field of magnetomotive forces with regard to the open slot in asynchronous motors. Acta techn Ca 9 no.5:414-431 '64.

1. Czechoslovak Academy of Sciences, Prague 1 - Nové Město, Václavské náměstí 55. Submitted on May 3, 1964.

HELLER, Bedrich, akademik

Influence of slotting on the torque characteristic of squirrel
cage motors. Acta techn Cz 9 no.6.517-541 '64.

1. Czechoslovak Academy of Sciences, Prague 1 - Nova Mesto,
Vaclavske namesti 55.

L 1030-66

ACCESSION NR: AP5025934

CZ/0017/65/054/005/0241/0247

AUTHOR: Heller, Bedrich (Academician)

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TITLE: Influence of the slotting on the torque characteristic and the additional torques in squirrel cage motors

SOURCE: Elektrotechnicky obzor, v. 54, no. 5, 1965, 241-247

TOPIC TAGS: electric motor, electric engineering

ABSTRACT: [Author's Russian and English summaries, modified]:
After analyzing the field in the air gap in the cage of a smooth stator and rotor, the air gap field in the case of a slotted stator and rotor is investigated. The difference of fields formed cause a continuous decrease of the torque characteristic in the working range and a continuous increase in the braking range. Quantitative relations are given for the maximum torque of the stator harmonic. Theory shows that the slot openings cause a substantial increase of those parasitic torques. Orig. art. has: 55 formulas, 6 graphs and 2 tables

Card 1/2

L 1030-66

ACCESSION NR: AP5025934

ASSOCIATION: none

SUBMITTED: 10Feb65

NR REF SOV: 000

ENCL: 00

OTHER: 007

SUB CODE: EE

JPRS

ny
Card 2/2

HELMER, NY.

Modern locomotive brake systems. Pt. 1, (TO be contd) " p.220, (LOZLEKNEFSTUDJANYI
SZENLE, Vol. 3, no. 6, June 1953, Budapest, Hungary)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11, Nov. 1953, Uncl.